

4. The method as claimed in any of claims 1 to 3, characterized in that an aqueous solution containing 1 to 6 M potassium acetate is used.
5. The method as claimed in claim 4, characterized in that the solution contains 2 to 4 M potassium acetate.
6. The method as claimed in any of claims 1 to 5, characterized in that the silica gel-like support material used is a suspension of silicon dioxide.
7. The method as claimed in any of claims 1 to 6, characterized in that the silica gel-like support material is rewashed with acetone.
8. The method as claimed in any of claims 1 to 7, characterized in that plasmid DNA with an endotoxin content of less than 100 U/ μ g is obtained.
9. The method as claimed in claim 8, characterized in that the endotoxin content is not more than 10 U/ μ g of plasmid DNA.
10. An endotoxin-free nucleic acid or oligonucleotide or a nucleic acid or oligonucleotide with reduced endotoxin content obtainable according to a method as claimed in any of claims 1 to 9.
11. The use of nucleic acids and/or oligonucleotides obtained according to any of the methods as claimed in any of claims 1 to 9 for transfecting eukaryotic or prokaryotic cells.
12. The use of a nucleic acid and/or oligonucleotides obtained according to any of the methods as claimed in any of claims 1 to 9 for producing an agent for the treatment of genetic disorders.

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13. A composition comprising the following components:

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- at least one solution suitable for the disruption of a biological sample,
 - an aqueous potassium acetate solution,
 - a solution of detergent/alcohol, and
 - a silica gel-like support material.

10 14. The composition as claimed in claim 13, characterized in that the following components are included:

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- a solution suitable for alkaline lysis of biological sample material,
 - a salt solution containing 1 to 6 M potassium acetate,
 - an alcoholic solution containing 0.5 to 10% (w/v) SDS in 100% strength isopropanol and
 - 20 - a silica gel-like support material.

15. The composition as claimed in claim 13 or 14, characterized in that the support material included is a suspension of silicon dioxide.

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16. The use of potassium acetate for isolating, purifying and/or separating endotoxin-free nucleic acids and/or oligonucleotides or nucleic acids and/or oligonucleotides with reduced endotoxin content from and of, respectively, a pre-purified biological sample.

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